

## SURFACE IRRIGATION DESIGN SHEET

Name \_\_\_\_\_ County/CD \_\_\_\_\_

Location \_\_\_\_\_ Sec. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_

Designer \_\_\_\_\_ Date \_\_\_\_\_ Checker \_\_\_\_\_ Date \_\_\_\_\_

Notes: \_\_\_\_\_

1 Field										
2 Area, acres										
3 Field Width, feet										
4 Field Length, feet										
5 Major Soil Series										
6 Ave. % Downfield Slope										
7 Design Group										
8 Intake Family										
9 Q available										
10 Q Minimum <sup>1</sup>										
11 Crop										
12 Irr. Depth or Root Zone, in.										
13 Net H <sub>2</sub> O to be replaced, in.										
14 Des. Consumptive Use, in.										
15 Max. Irr. Freq. During Peak Consumptive Use Period, days										
16 Irrigation Method										
17 Border Irr. Unit Stream, CFS										
18 Border Irr. Spacing, feet										
19 No. Borders per Field										
20 Q per Border, CFS										
21 Max. Furrow Stream, GPM										
22 Furrow Spacing, inches										
23 No. Furrows Per Field										
24 Q per Furrow, GPM										
25 Length of Run, feet										
26 Estimate Field Efficiency, %										
27 Gross Application, inch										
28 Estimate Hours per Set										
29 No. Borders/Furrows per Set										
30 No. Sets per Field										
31 Hours to Complete an Irr.										
32 Hours Allowed/Day for Irr.										
33 Days to Complete an Irr.										
34 Total Q need, CFS or GPM										

<sup>1</sup> Q Minimum (estimate) = (Acres)(18.85)(Consumptive Use)/Efficiency